



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

RBW0905G12631-3G
Job Sheet 170083



Part No: RBW0905G12631-3G

Job Qty: 12 ea

Part Name: Safety Joint Assembly



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 1/9/18

Job Tracking No:

Due Date: 1/31/18

Created By: Chantal Lavoie

Type: Stock

Description:

Customer: Era Helicopters LLC (CERAH01)

PO Box 79459, Attn: Accounts Payable Houston, TX, 77279-9459 USA ph:(337) 478-6131

Note: DWG RBW0905G12631-3G Rev 7 IPP Rev A 18.01.09 New issue DP verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	12 pcs		1/31/18	0.00	0.00	Purchasing		AT 1/8/12
110	Packaging	12 pcs		1/31/18	0.00	0.00	Packaging2		AT 1/8/12
120	QC	12 pcs		1/31/18	0.00	0.00	QC6		38
130	Packaging	12 pcs		1/31/18	0.00	0.00	Packaging3		41/10
140	QC21-FG	12 Ea		1/31/18	0.00	0.00	QC21		21 FEB 13 2018

Part Op 100 - Issue P/O: 035753 MANUFACTURE RBW0905G12631-3G AS PER DWG Supplier: METEC Certificate of Descriptions: conformity is required

GA.

old

JAN 09 2017

WLB

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
100-Purchasing	RBW0905G12631-3GP	12	0	0	0

Part Specifications

Specifications could not be found.

Plex 1/9/18 1:06 PM dart.lavoie.chantal



S041581



Safety Joint Assembly

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K64 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

PART NO: RBW0905G12631-3G
Original Serial #: S041581
Revision:
Operation:
Change No:

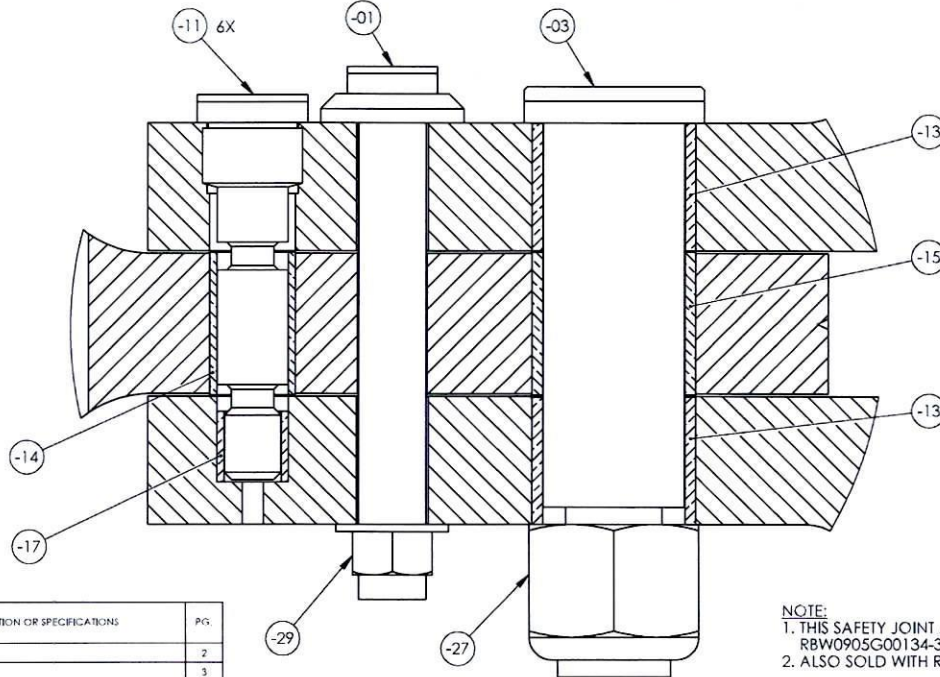
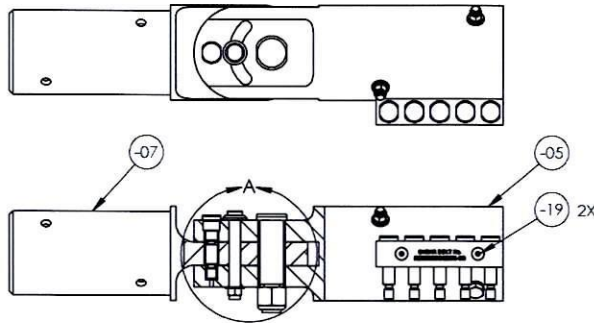
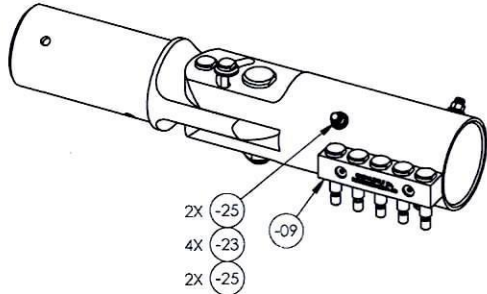
Purchasing

Mfg Date: 02/12/18
Job No: 170083

746-ERA-Dec-22
246-ERA-Feb-2

12 x 10 Dec. 22 - Metc
746 + 20%
End of Feb week of Feb
1 in stock Metc

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DETAIL A
SCALE 1.5 : 1

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			-01	1	PIVOT LOCK BOLT	4140 Q&T/4142 Q&T		2
			-03	1	PIVOT BOLT	4140 Q&T/4142 Q&T		3
			-05	1	TONGUE PIVOT	6061		4
			-07	1	DOLLY PIVOT	6061		5
			-09	1	PIVOT SHEAR BOLT HOLDER	6061		6
			-11	6	PIVOT SHEAR BOLT	6061	#RBW0905G12351-3G	1
			-13	2	BUSHING	BRONZE	Ø20mm ID. X 18mm (MCMaster-CARR #6679K21) MODIFIED	7
	B/O		-14	1	BUSHING	BRONZE	Ø12mm ID. X 20mm (APPLIED INDUSTRIES #1020DU)	1
	B/O		-15	1	BUSHING	BRONZE	Ø20mm ID. X 20mm (MCMaster-CARR #6679K21)	1
	B/O		-17	1	BUSHING	BRONZE	Ø8mm ID. X 10mm (APPLIED INDUSTRIES #0810DU)	1
	B/O		-19	2	FLAT SOCKET HEAD CAP SCREW	STEEL	#10-32 UNF X 7/8 (MCMaster-CARR #91263A547)	1
	B/C		-21	2	HEX HEAD CAP SCREW	PLATED STEEL	5/16-24 UNF X 3-5/8 (SPENCER AIRCRAFT #ANS-35A)	1
	B/O		-23	4	FLAT WASHER	PLATED STEEL	Ø5/16 (SPENCER AIRCRAFT #AN960-516)	1
	B/O		-25	2	LOCK NUT	PLATED STEEL	5/16-24 UNF (MCMaster-CARR #95307A600)	1
	B/O		-27	1	LOCK NUT	PLATED STEEL	5/8-18 UNF (MCMaster-CARR #97135A275)	1
	B/O		-29	1	LOCK NUT	PLATED STEEL	3/8-24 UNF (MCMaster-CARR #95307A700)	1

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		DELETED -11 FROM DWG., MADE REFERENCE IN BOM FOR -11 TO SEE RBW0905G12351-3G.	4/28/10	RJC	
1A		REMOVED PAGE 2, RE-NUMBERED PAGES & BOM PER W.P.	4/28/10	RJC	
2		CORRECTED PG. 1 ASSEMBLY VIEW, UNIT WAS MIRRORED THE WRONG DIRECTION, ADDED -14 BUSHING, CHD #03 HEAD DIA. FROM Ø1.182 TO Ø1.12, AND ADDED .125 TO THREAD LENGTH FOR NYLOCK NUT.	5/31/10	WP	RW
3		-09 CHD P/N FROM RBW0905G12351-3G TO RBW0905G12351-3G, REMOVED -11 FROM DWG. & MADE A SEPARATE FILE FOR THIS PART RBW0905G12351-3G, PER W.P.	9/3/10	RJC	
4		SEPERATED PARTS TO 1 PART PER SHEET -07 ADDED FIT TOL TO Ø2.700 DIM.	1/2/12	BIM	SE
5		UPDATED SHEET FORMATS, CHD NAME WAS "SAFETY JOINT ASSEMBLY" IS "SAFETY PIN, TOWING/PUSHING", -14 CHD B/O INFO WAS RED #G0-436 B GURLOCK #MD1020DU, -17 CHD B/O INFO WAS RED #G0-427 B GURLOCK #MD0810DU, -29 CHD QTY IN BOM WAS 3 B 1.	12/20/13	CFS	
6	14-0204	ADDED NOTE 2 TO SHEET ONE, -03 CHD RAW MATERIAL SIZE WAS Ø1.14 B Ø1.17, -05 ADDED ENGRAVE 1/N, S/N, MADE IN USA NOTE -07 ADDED MISSING 45° DIM. -14, -17, 21, -23 CHD B/O INFO, -31 DELETED.	10/31/2014	RJC	JAG
7	15-0027	-01, -03 CHD MATERIAL WAS 4140 Q&T IS 4140 Q&T/4142 Q&T.	1/30/2015	RJC	JAG

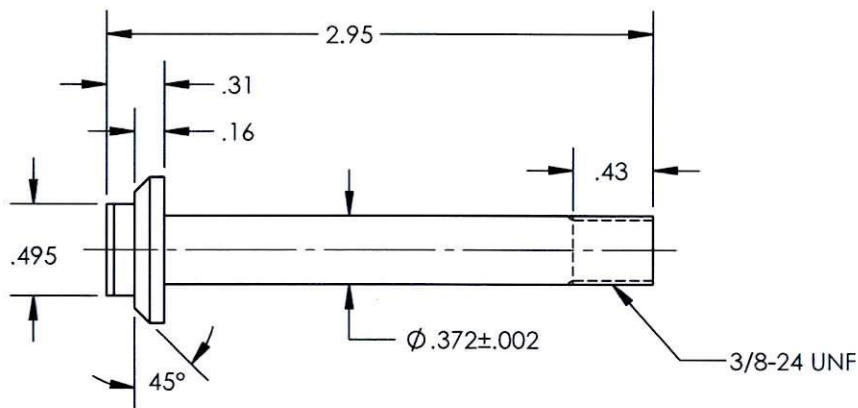
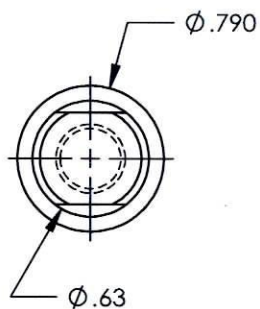
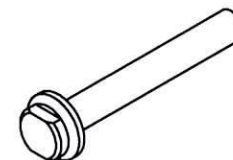
NOTE:
1. THIS SAFETY JOINT ASSEMBLY ATTACHES TO RBW0905G00134-3G TOW DOLLY.
2. ALSO SOLD WITH RBW0905G10331-3G.

DART AEROSPACE	
TITLE: SAFETY PIN, TOWING/PUSHING	
DWG NO. RBW0905G12631-3G	REV
MATL	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .005	FRACTIONS ± 1/8
.XX ± .01	ANGLES ± 5°
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45°	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:4	DATE 2/12/2010
SHEET 1 OF 7	

12 x 10 Feb 22 End of Feb week of Feb
End of Jan

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
7	15-0027	-01 CH'D MATERIAL WAS 4140 Q&T IS 4140 Q&T/4142 Q&T.	1/30/2015	RJC	JAG



(-01)

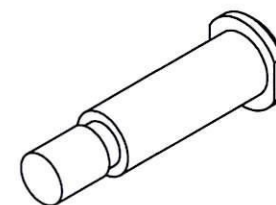
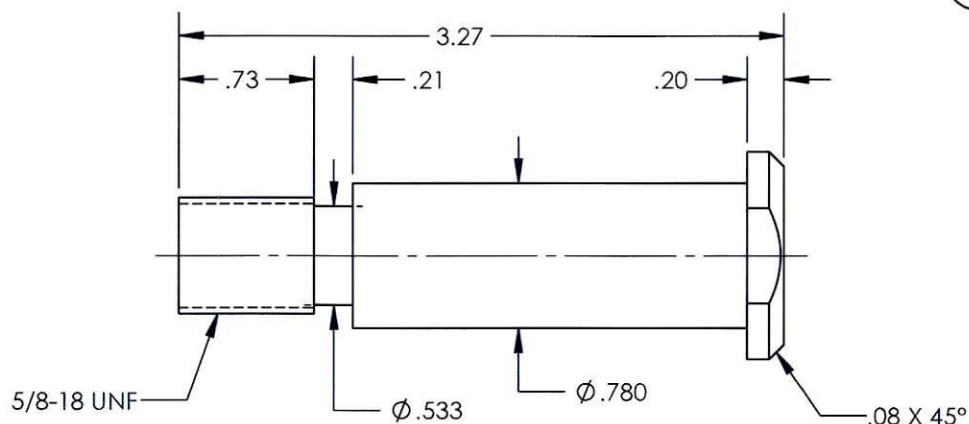
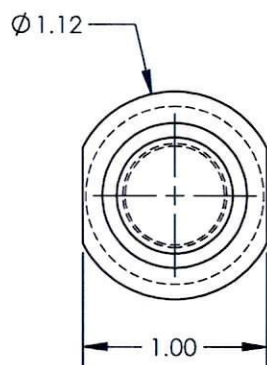
PIVOT LOCK BOLT



TITLE		SAFETY PIN TOWING/PUSHING	
DWG NO.		RBW0905G12631-3G-01	
REV			
MAT'L 4140 Q&T/4142 Q&T		DRAWN BY: PERRITT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		APPROVED <i>D. Weir</i>	
.XXX ± .005 FRACTIONS ± 1/8		HEAT TREAT	
.XX ± .01 ANGLES ± .5°		FINISH NICKEL PLATE	
.X ± .1		SPEC MIL-P-6859	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R		USED ON MODEL	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING		AGUSTA AW139	
SCALE 1:1	DATE 2/12/2010	SHEET 2 OF 7	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2		-03 CH'D HEAD DIA. FROM Ø1.182 TO Ø1.12, & ADDED .125 TO THREAD LENGTH FOR NYLOCK NUT.	5/31/10	WP	RW
7	15-0027	-03 CH'D MATERIAL WAS 4140 Q&T IS 4140 Q&T/4142 Q&T.	1/30/2015	RJC	JAG



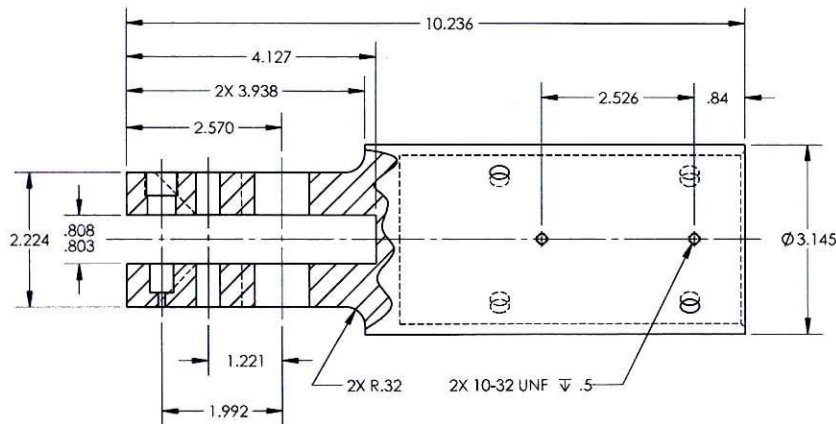
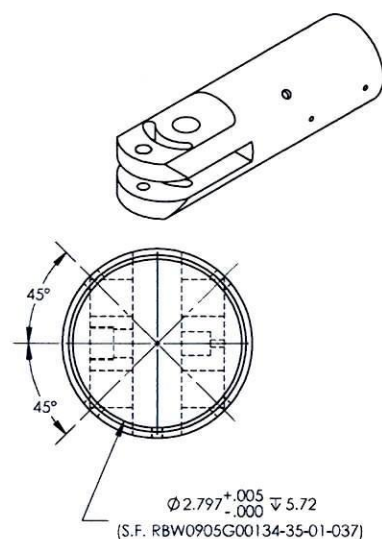
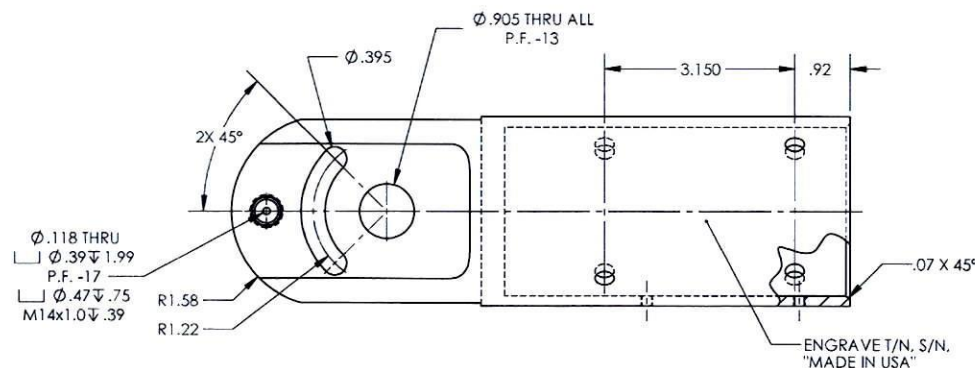
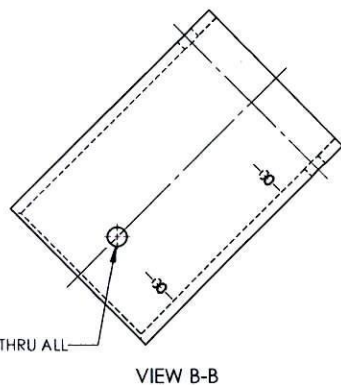
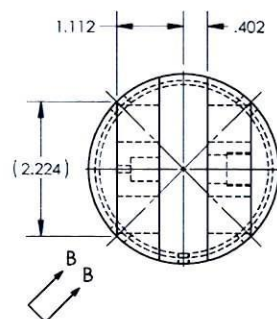
(-03)

PIVOT BOLT

DART AEROSPACE	
TITLE SAFETY PIN, TOWING/PUSHING	
DWG NO. RBW0905G12631-3G-03	REV
MAT'L 4140 Q&T/ 4142 Q&T	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weir</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH NICKEL PLATE
.X ± .1	SPEC MIL-P-6859
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AGUSTA AW139
SCALE 1:1	DATE 2/12/2010 SHEET 3 OF 7

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REVISIONS					
REV	ECP	DESCRIPTION	DATE	INITIAL	APPROVED
6	14-0204	-05 ADDED ENGRAVE T/N, S/N, MADE IN USA NOTE.	10/31/2014	RJC	JAG

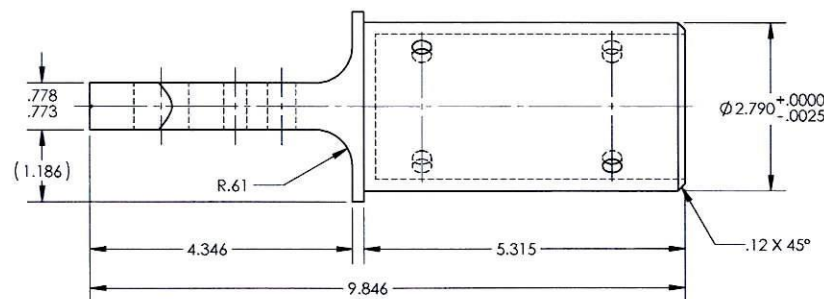
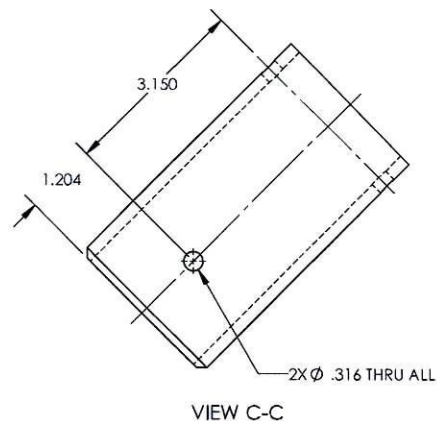
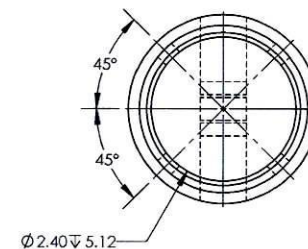
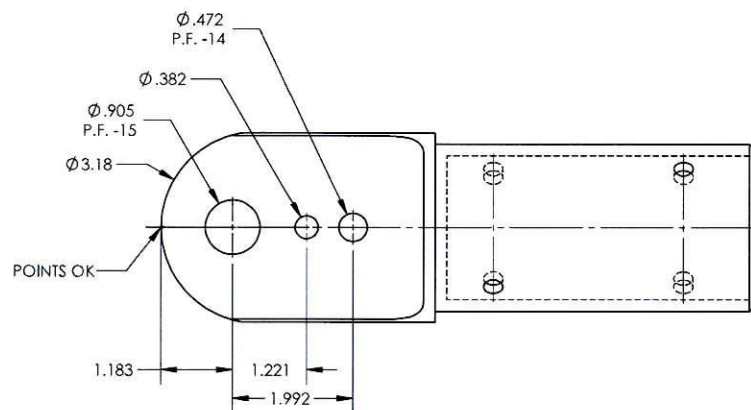
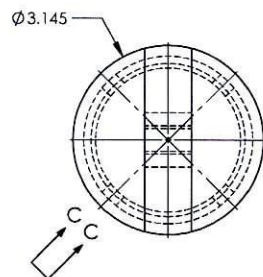
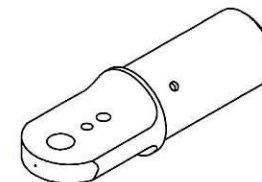


(-05)
TONGUE PIVOT

DART AEROSPACE	
TITLE SAFETY PIN, TOWING/PUSHING	
DWG NO. RBW0905G12631-3G-05	REV
MAT'L 6061	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED
.XXX ± .005	HEAT
.XX ± .01	FINISH
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 X 45°	SPEC MIL-A-8625F, TYPE II, CLASS I
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
	AGUSTA AW139
SCALE 1:2	DATE 2/12/2010
	SHEET 4 OF 7

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
4		SEPARATED PARTS TO 1 PART PER SHEET -07 ADDED FIT TOLERANCE TO Ø2.490 DIM.	1/2/12	BM
6	14-0204	-07 ADDED MISSING 45°.	10/31/2014	RJC

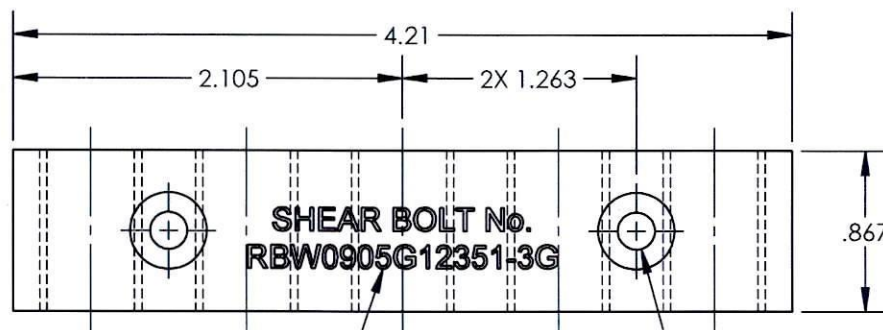
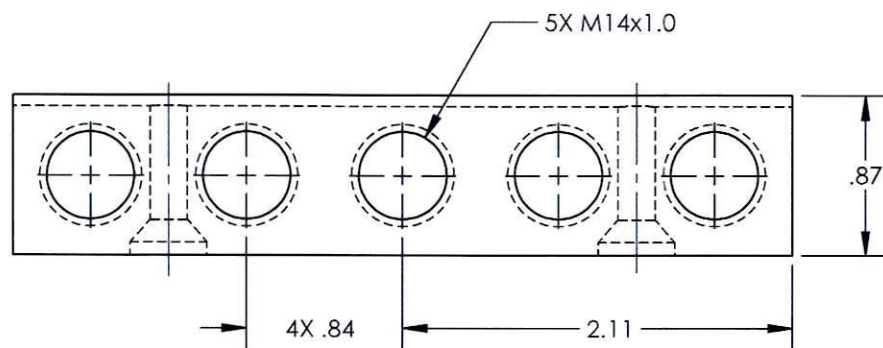


(-07)
DOLLY PIVOT

DART AEROSPACE	
TITLE SAFETY PIN, TOWING/PUSHING	
DWG NO. RBW0905G12631-3G-07	REV
MAT'L 6061	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED
.XXX ± .005 FRACTIONS ± 1/8	TEXT
.X ± .01 ANGLES ± 5°	FINISH CLEAR ANODIZE
1. BREAK ALL SHARP EDGES .015 ± .45°	SPEC MIL-A-8625F, TYPE II, CLASS I
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
	AGUSTA AW139
SCALE 1:2	DATE 8/15/2007
	SHEET 5 OF 7

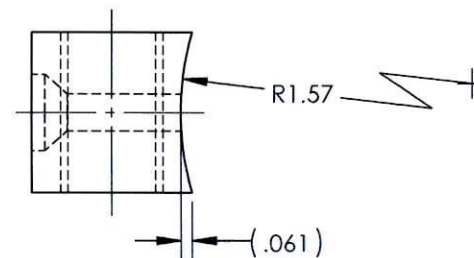
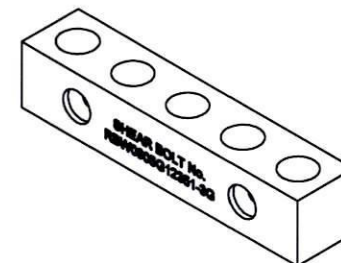
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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3		-09 CH'D P/N FROM RBW0905G12251-3G TO RBW0905G12351-3G, REMOVED -11 FROM DWG. & MADE A SEPARATE FILE FOR THIS PART RBW0905G12351-3G, PER W.P.	9/3/10	RJC	



ENGRAVE: "SHEAR BOLT No.
"RBW0905G12351-35"
1/8 ARIAL TEXT

2X ϕ .201 THRU ALL
 $\checkmark$ ϕ .41 X 82°
 $\sqcap$ ϕ .41 ∇ .07



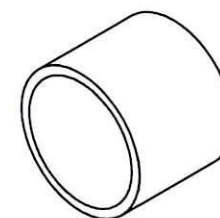
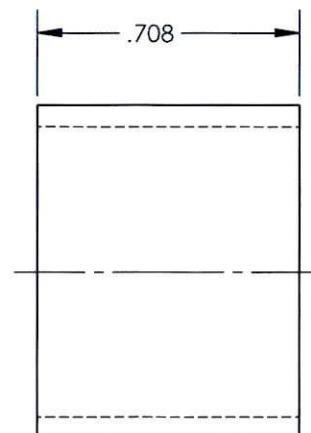
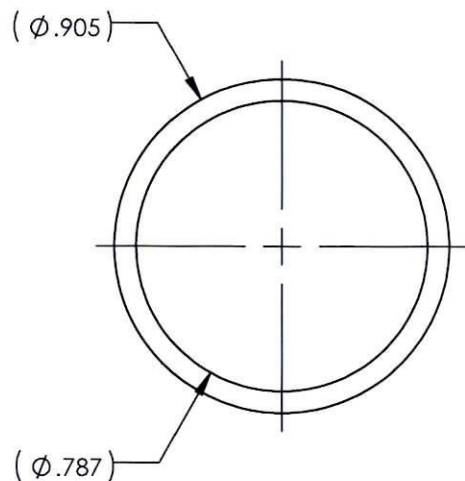
(-09)

PIVOT SHEAR BOLT HOLDER

DART AEROSPACE	
TITLE SAFETY PIN, TOWING/PUSHING	
DWG NO. RBW0905G12631-3G-09	REV
MAT'L 6061	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weir</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH
.X ± .1	CLEAR ANODIZE
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC MIL-A-8625F, TYPE II, CLASS I
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
	AGUSTA AW139
SCALE 1:1	DATE 2/12/2010 SHEET 6 OF 7

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REVISIONS			
REV	ECR	DESCRIPTION	DATE INITIAL APPROVED



(-13)

BUSHING

DART AEROSPACE	
TITLE SAFETY PIN, TOWING/PUSHING	
DWG NO. RBW0905G12631-3G-13	REV
MAT'L BRONZE	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D. Weir</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT
.XX ± .01 ANGLES ± 5°	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
	AGUSTA AW139
SCALE 2:1	DATE 2/12/2010 SHEET 7 OF 7



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO038753**

Supplier: MEM001-VC
Metec Metal Technology Inc.
20 Terry Fox Drive PO Box 781
Vankleek Hill
ON
K0B 1R0 Canada
Phone: 613 678 3957
Fax: 613 678 3956

Attention: Walz, Shigi

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO038753

PO Date: 1/9/18

Due Date: 1/30/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Phone:

Via: Ground

Pynt Terms: Net 30

Freight Terms:

Special Comments:

REVISED
\$.

Items

Line Item	Part	Supplier Part No	Item No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	RBW0905G12631-3GP			Safety Joint Assembly	Firmed	2/1/18	12 pcs	0 pcs	12 pcs	\$625.73/pcs	\$7,508.76

Line Item Note job# 170083

Grand Total: \$7,508.76

Order Notes

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A007 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION MAINTAINED BY SUPPLIER)

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A016 PERSONNEL QUALIFICATION

A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENT

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

CL

Plex 1/17/18 12:15 PM dart.lavoie.chantal



20 Terry Fox Drive, Vankleek Hill, Ontario K0B 1R0

Tel. (613) 678-3957 & (613) 678-2782 Fax (613) 678-3956 metec@metec.ca

CERTIFICATE OF CONFORMITY

SOLD TO:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, Ont.
K6A 1K7

SHIPPED TO:

same

Quantity	Part Number	Part Name	P.O. Number
12	RBW0905G12631-3GP	Safety Joint Assembly	38753

We hereby certify that the above parts were made in conformance with applicable drawings.

METEC Metal Technology Inc.

A handwritten signature in black ink, appearing to read "Shigi Walz".

Shigi Walz

Vankleek Hill, February 12, 2018